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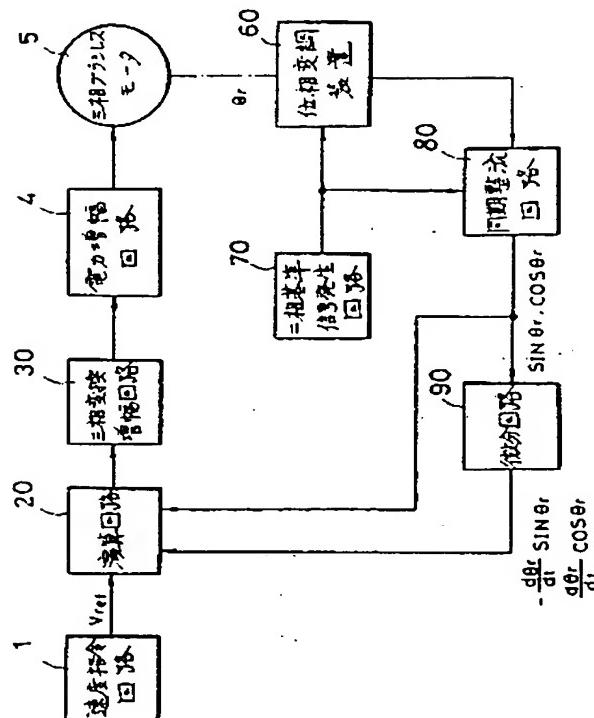
APPLICATION DATE : 28-02-86
 APPLICATION NUMBER : 61043133

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TITLE : SPEED CONTROLLER FOR 3-PHASE AC MOTOR



ABSTRACT : PURPOSE: To obtain angular speed information of high quality by providing a signal generator for generating a 2-phase reference signal, and a phase modulator for generating a 2-phase modulation signal which includes the rotary angle information of 3-phase AC motor by the 2-phase reference signal.

CONSTITUTION: A phase modulator 60 detects a displacing angle θ_r from a reference position of a rotor, inputs a 2-phase reference signal having a phase angle ω_t generated from a 2-phase reference signal generator 70, and outputs a phase modulation sinusoidal wave $\sin(\omega_t - \theta_r)$, $\cos(\omega_t - \theta_r)$. A synchronous rectifier 80 synchronously rectifies the phase modulation sinusoidal wave by a reference signal and outputs a demodulated 2-phase sinusoidal wave $\sin\theta_r$, $\cos\theta_r$. A differentiator 90 differentiates the 2-phase sinusoidal wave, and outputs a rotary angle signal. A calculator 20 inputs the 2-phase sinusoidal waves and the rotary angle signal and outputs a 2-phase torque command signal.

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